## Figure 1A

1	CACCAGCAGTAGTAGCAGAAGCGAAAGGCAAACGCAACCGCTCTCCCCGCGCGTTGGC	60
61	$\tt CGATTCATTAATGCAGCTGGCACGACAGGTTTCCCGACTGGAAAGCGGGCAGTGAGCGCA$	120
121	${\tt ACGCAATTAATGTGAGTTAGCTCACTCATTAGGCACCCCAGGCTTTACACTTTATGCTTC}$	180
181	$\tt CGGCTCGTATGTTGTGGAATTGTGAGCGGATAACAATTTCACACAGGAAACAGCTATG$	240
241	${\tt ACCATGATTACGCCAAGCTCGAAATTAACCCTCACTAAAGGGAACAAAAGCTGGAGCTCC}$	300
301	${\tt ACCGCGGTGGCGGCCGCTCTAGAACTAGTGGATCCCCCGGGCTGCAGGAATTCGGCACGA}$	360
361 1	$\begin{picture}{llllllllllllllllllllllllllllllllllll$	420 1
421 2	GGCTTCCCTGGGGCAGATCCTCTTCTGGAGCATAATTAGCATCATCATCATTATTCTGGCTGG	480 21
481 22	AGCAATTGCACTCATCATTGGCTTTTGGTATTTCAGGGAGACACTCCATCACAGTCACTAC A I A L I I G F G I S G R H S I T V T T	540 41
541 42	TGTCGCCTCAGCTGGGAACATTGGGGAGGATGGAATCCTGAGCTGCACTTTTGAACCTGA V A S A G N I G E D G I L S C T F E P D	600 61
601 62	CATCAAACTTTCTGATATCGTGATACAATGGCTGAAGGAAG	660 81
661 82	TGAGTTCAAAGAAGGCAAAGATGAGCTGTCGGAGCAGGATGAAATGTTCAGAGGCCGGAC E F K E G K D E L S E Q D E M F R G R T	720 101
721	AGCAGTGTTTGCTGATCAAGTGATAGTTGGCAATGCCTCTTTGCGGCTGAAAAACGTGCA	780
102	AVFADQVIVGNASLRLKNVQ	121
781	ACTCACAGATGCTGGCACCTACAAATGTTATATCATCACTTCTAAAGGCAAGGGGAATGC	840
122	LTDAGTYKCYIITSKGKGNA	141
841	TAACCTTGAGTATAAAACTGGAGCCTTCAGCATGCCGGAAGTGAATGTGGACTATAATGC	900
142	N L E Y K T G A F S M P E V N V D Y N A	161
901	CAGCTCAGAGACCTTGCGGTGTGAGGCTCCCCGATGGTTCCCCCAGCCCACAGTGGTCTG	960
162	S S E T L R C E A P R W F P Q P T V V W	181
961	GGCATCCCAAGTTGACCAGGGAGCCAACTTCTCGGAAGTCTCCAATACCAGCTTTGAGCT	1020
182	ASQVDQGANFSEVSNTSFEL	201

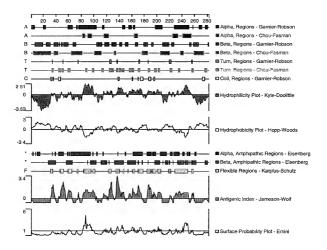
## Figure 1B

1080																				GAA	1021
221	N .	N	I	T	V	N	Y	L	V	S	۷.	٧	K	M	T	V	N	Ε	S	N	202
1140	GAC	AGT	CAA	TAT	GG	AGG	:AAC	AGC	CAA	TGC	CAT	TGA	AAA	TGA	GAT	тат	CTG	стс	ата	CAC	1081
241		v		I		G			K		I		N	E	I			s			222
1200	GTG	TCT	TTC	AGGC	CAA	ACTO	AA	'GC'	GCI	ACA	.cci	TCA	GAG	GCG	AAG	CAA	GAT	GGA	ATC	AGA	1141
261	С	ь	S	A	K	S	N	L	L	Q	L	H	S	R	R	K	Ι	Е	S	Е	242
1260	GCT	Cam.	CCT	יחידי	בררו	rc a c	'T'C'1	rann	men.	ימכים	ccc.	CTG	יראכ	നമന	TCC	- mm	നനനം	መጥረት	CTC	TGT	1201
281	L	M	L	Y		S	L	P		L		W		I	A	F	F	s	s		262
1320	TAC	ATC	AGGG	AAC	CAC	egT1	· AT:	GTO	AAA	TGC	.GCZ	AAA	AAA	CAC	GGC	CTT	TGC	ATG	ата	AAAA	1261
283																			*	K	282
1380		» mm	ma s		3300	naac	·	a a mo	marr	mmn	ma.	3.00	3 mc		90.3	003	mar	3 mm	».cm	AGA	1321
1300	CAT	MIL	VI GM	28444	JAG(	1660	TC.	ATT	TAI	411	TAG	MCC	AIG	GMI	CCM	CCM	TCA	ATT	MCT	AGA	1321
1440	AAG	CAG	776	יראי	N A CO	NAC 7		ac.	CAR	CNZ	GAC	ממי		acc	ama	202	നഗസ	ם מ מ	TAC	ATC:	1381
144	nno	CAG.	ww.c	Chr	27.00	mor	uuu	Incr	.Grsz.	CH	OAC	Chin		100	919.	JOA	1010	ruso	ino	AIC.	1301
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130	100	MMG	MC	LGGF	<b>1</b> CO.	LGCF	LCAPA.	1122	MMC	GAI	MGI	mo	911	191	MMG	JMC.	CIM	GMM	191	ICM.	1301
1620		001	12.02		00.30	1200		vame		mor		aam	aaa		201	220	mama	3.03	222	ATC	1561
1020	TAG	GGA	мсм	MGC	I GAI	MG.	-	.CTC	CAC	161	GCC	CCI	ccc	CCT	GGM	_AG	1010	MGM		ATC	1301
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1080	MGC	GGA	TGA	sCTC	3110	W10	GIA	GCI	.161	MIN	GTT	TIM	111	GMM	ICI	GIC	111	TIC	MIG	1602	1021
1740		m = 0	amo					. n. m.		mor		maa			200	n . m.	omar		maa	ccc	1681
1/40	TAT	TAG	CTG	LAAC	AAT"	LCAP	CCA	ATT	TAT	arcı	ACA	rcc	ATA	MMC		IAT	GTC:	MM	166	CCC.	1001
1800		mmm			2000				000	amn		ama			200	3.am		ma a	-	GTAG	1741
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1860	CCC	CTT	TCT	iGC'I	rric	GCC	رىيى	AAA	TCC	GUI	GAI	TAT	TTT	ACT.	rrc.	IGA.	AAA:	GTC	166	TAA'	1901
			~-~					3.00		3 mc										AAC:	1861
1920	TCG	CAG	(GAG	ACA	VI AA	IGCF	.1.1.1	ATT	ATA	ATC	ATC	AAA	AGA	r-r-G	AAG'	CA	ATG	CAA	1 GA	AAC:	1861
1000									mar									~~~		000	
1980	TTT	فافافا	YIGC	CAAF	MAC	MCA	"L'AA	.1.1.1	TCT	CCI	GCA	IGA	AAC	ATA	I'AA.	I'I'A'	ATT.	CCG	ACA	GCG)	1921
																				3 mmr	
2040	ATA	ACT.	TT PG	ACC	TTC.	ACCI	.GG?	GAA	AGG	TCC	TGC	AAE	CGT	ATC	r.r.c.	A'1'G'	A'I'G	CAG	ICT	ATT	1981
								.mm-		ma-			ma-			. m.c	omc:		~-	macr	2041
2100	nAG	GCT.	ACA	166	. UC	CCI	.CA'I	TTC	CCT	TCI	GC'I	JAG	TCT	wee.	MUA.	MTC.	GTC	1AI	-AT	TGGG	2U41
21.00		acc.		mm	·mc •			~~	a.c.m	~~~	200	200	m a.c.	NTC	NCC.	ייחרה	mmc:	c mm	TC F	ACC!	2101
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## Figure 1C

2281	${\tt CAGGACGTCTCCCCATTACAACTACCCAATCCGAAGTGTCAACTGTGTCAGGACTAAGAA}$	2340
2341	${\tt ACCCTGGTTTTGAGTAGAAAGGGCCTGGAAAGAGGGGAGCCAACAAATCTGTCTG$	2400
2401	$\tt CTCACATTAGTCATTGGCAAATAAGCATTCTGTCTCTTTTGGCTGCTGCTCAGCACAGAG$	2460
2461	${\tt AGCCAGAACTCTATCGGGCACCAGGATAACATCTCTCAGTGAACAGAGTTGACAAGGCCT}$	2520
2521	${\tt ATGGGAAATGCCTGATGGGATTATCTTCAGCTTGTTGAGCTTCTAAGTTTCTTTC$	2580
2581	ATTCTACCCTGCAAGCCAAGTTCTGTAAGAGAAATGCCTGAGTTCTAGCTCAGGTTTTCT	2640
2641	${\tt TACTCTGAATTTAGATCTCCAGACCCTTCCTGGCCACAATTCAAATTAAGGCAACAAACA$	2700
2701	${\tt TATACCTTCCATGAAGCACACACACACACTTTTGAAAGCAAGGACAATGACTGCTTGAATTG}$	2760
2761	AGGCCTTGAGGAATGAAGCTTTGAAGGAAAAGAATACTTTGTTTCCAGCCCCTTCCCAC	2820
2821	${\tt ACTCTTCATGTTTAACCACTGCCTTCCTGGACCTTGGAGCCACGGTGACTGTATTACAT}$	2880
2881	GTTGTTATAGAAAACTGATTTTAGAGTTCTGATCGTTCAAGAGAATGATTAAATATACAT	2940
2941	TTCCTAAAAAAAAAAAAAAAAAAACTCGAGGGGGGCCCGGTACCCAATTCGCCCTATAGT	3000
3001	GAGTCGTATTACAATTCACTGGCCGTCGTTTTACAACGTCGTGACTGGGAAAACCCTGGC	3060
3061	GTTACCCAACTTAATCGCCTTGCAGCACATCCCCCTTTCGCCAGCTGGCGTAATAGCGAA	3120
3121	GAGGCCCGCACCGATCGCCCTTCCCAACAXTTGCGCAGCCTGAATGGCGAATGGCAAATT	3180
3181	${\tt GTAAGCGTTAATATTTTGTTAAAATTCGCGTTAAATTTTTGTTAAATCAGCTCATTTTTT}$	3240
3241	AACCAATAGGCCGAAAATCCCTTATAAATCAAAAGAATAGACCGAGATAGGG	3300
3301	TTGAGTGTTGCAGTTTGGAACAAGAGTCCACTATTAAAGTGTTCACCGCGGTGA 33	57

Figure 2



# Figure 3A

1	CCACGCGTCCGGAATGAACAACTTTTCTTCTTCTTGAATATATCTTAACGCCAAATTTTGA	60
61	$\tt GTGCTTTTTTGTTACCCATCCTCATATGTCCCAGCTGGAAAGAATCCTGGGTTGGAGCTA$	120
.21	$\tt CTGCATGTTGATTGTTTTGTTTTTCCTTTTGGCTGTTCATTTTGGTGGCTACTATAAGGA$	180
181	${\tt AATCTAACACAAACAGCAACTGTTTTTTTTTTTTTTTTT$	240
1	TOTGGCAAGTCCTCATATCAAATACAGAACATGATCTTCCTCCTGCTAATGTTGAGCCTG M I F L L L M L S L	300 10
11	GAATTGCAGCTTCACCAGATAGCAGCTTTATTCACAGTGACAGTCCCTAAGGAACTCTAC E L Q L H Q I A A L F T V T V P K E L Y	360 30
31	ATRATAGAGCATGGCAGCATGTGACCTGGAAGTCACTTGACACTGGAAGTCATGTG I I E H G S N V T L E C N F D T G S H V	420 50
121 51	AACCTTGGAGCAATAACAGCAGTTTGCAAAAGGTGGAAAATGATACATCCCCACACCGT N L G A I T A S L Q K V E N D T S P H R	480 70
181 71	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	540 90
91	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	600 110
01	GACTACAAGTACCTGACTCTGAAAGTCAAAGCTTCCTACAGGAAAATAAACACTCACATC D Y K Y L T L K V K A S Y R K I N T H I	660 130
61 31	CTAAAGGTTCCAGAAACAGATGAGGTAGAGGTCACCTGCCAGGCTACAGGTTATCCTCTG L K V P E T D E V E L T C Q A T G Y P L	720 150
21	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	780 170
81	GAAGGCCTCTACCAGGTCACCAGTGTTCTGCGCCTAAAGCCACCCCCTGGCAGAAACTTC E G L Y Q V T S V L R L K P P P G R N F	840 190
91	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	900 210
01	$ \begin{array}{llllllllllllllllllllllllllllllllllll$	960 230
61	ATCATTGCTTTCATTTCATAGCCCCAGTGATAGCCCCTAAGAAAACAACTCTGTCAAAAG I I A F I F I A T V I A L R K O L C O K	102 250

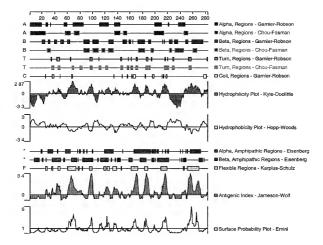
## Figure 3B

251	L Y S S K D T T K R P V T T T K R E V N	270
1081 271	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	1140 284
1141	${\tt GAAGCTTCTGGACTCTGAACAAGAATTCGGTGGCCTGCAGAGCTTGCCATTTGCACTTTT}$	1200
1201	${\tt caaatgcctttggatgacccagcactttaatctgaaacctgcaacaagactagccaacac}$	1260
1261	$\tt CTGGCCATGAAACTTGCCCCTTCACTGATCTGGACTCACCTCTGGAGCCTATGGCTTTAA$	1320
1321	${\tt GCAAGCACTACTGCACTTTACAGAATTACCCCACTGGATCCTGGACCCACAGAATTCCTT}$	1380
1381	${\tt caggatccttcttgctgccagactgaaagcaaaaggaattatttcccctcaagttttcta}$	1440
1441	${\tt AGTGATTTCCAAAAGCAGAGGTGTGTGGAAATTTCCAGTAACAGAAACAGATGGGTTGCC}$	1500
1501	${\tt AATAGAGTTATTTTTATCTATAGCTTCCTCTGGGTACTAGAAGAGGCTATTGAGACTAT}$	1560
1561	${\tt GAGCTCACAGACAGGGCTTCGCACAAACTCAAATCATAATTGACATGTTTTATGGATTAC}$	1620
1621	${\tt TGGAATCTTGATAGCATAATGAAGTTGTTCTAATTAACAGAGAGCATTTAAATATACACT}$	1680
1681	${\tt AAGTGCACAAATTGTGGAGTAAAGTCATCAAGCTCTGTTTTTGAGGTCTAAGTCACAAAG}$	1740
1741	${\tt cattigtittaacctotaatggcaccatgtttaatggtggtttttttttt$	1800
1801	${\tt TTTCCTTTAAAAATTATTGGTTTCTTTTTATTTGTTTTACCTTAGAAATCAATTATATATA$	1860
1861	${\tt cagtcaaaaatatttgatatgctcatacgttgtatctgcagcaatttcagataagtagct}$	1920
1921	${\tt AAAATGGCCAAAGCCCCAAACTAAGCCTCCTTTTCTGGCCCTCAATATGACTTTAAATTT}$	1980
1981	${\tt GACTTTTCAGTGCCTCAGTTTGCACATCTGTAATACAGCAATGCTAAGTAGTCAAGGCCT}$	2040
2041	$\tt TTGATAATTGGCACTATGGAAATCCTGCAAGATCCCACTACATATGTGTGGAGCAGAAGG$	2100
2101	$\tt GTAACTCGGCTACAGTAACAGCTTAATTTTGTTAAATTTGTTCTTTATACTGGAGCCATG$	2160
2161	${\tt AAGCTCAGAGCATTAGCTGACCCTTGAACTATTCAAATGGGCACATTAGCTAGTATAACA}$	2220
2221	GACTTACATAGGTGGGCCTAAAGCAAGCTCCTTAACTGAGCAAAATTTGGGGCTTATGAG	2280

# Figure 3C

2281	AATGAAA	GGGTGTGA	ATTGACTAA	CAGACAAATC	ATACATCTC	AGTTTCTCAAT	PCTCA	2340
2341	TGTAAAT	CAGAGAATO	CCTTTAAAG	AATAAAACTC	AATTGTTAT	PCTTCAAAAAA	AAAAA	2400
2401	AAAAAA	2406						

Figure 4



## Figure 5A

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3	LI	1 L	S	L	V	L	s	L	L	K	L	G	S	G	Q	W	Q	V	F	22
121	cccc	7070	2022	ccc	m~m	cca.	ccc	cmm	ССТ	ccc	~~ A	ccn	ccc	200	a mm	cmc	C/IIC	mmm	CCTG	180
23			K																	42
23	G 1	. п		P	٧	Q.	A	ь	٧	G	£	ъ	Α	A	r	ъ	C	r	ь	42
181	TCTC	'C'T'A	AGAC	CAA	TCC	AGA	aac	תבים	CCA	ДСТ	ccc	amm.	Стт	CAG	ccc	מרא	രനന	cmc	TAGC	240
43	S																		S	62
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241	GTGC	TCC	ACCT	ста	CAG	GGA	ccc	CAA	GGA	CCA	acc	Δmm	ጥልጥ	CCA	CAT	ccc.	מסמ	ፈሞጋ	TCAA	300
63	V V																			82
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301	GGC	AGGA	CAAA	ACT	GGT	GAA	GGA	TTC	TAT	TGC	GGA	GGG	GCG	CAT	стс	TCT	GAG	GCT	GGAA	360
83	G I																			102
361	AACA	ATTA	CTGT	GTT	GGA'	TGC	TGG	CCT	CTA	TGG	GTG	CAG	GAT	TAG	TTC	CCA	GTC	TTA	CTAC	420
103	N I	т	v	L	D	A	G	L	Y	G	С	R	I	s	s	Q	S	Y	Y	122
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181							~~	~~-		:			·			:			:	
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41	CCCI																			600
.63	PI	. A	K	W	K	G	P	Q	G	Q	D	L	S	т	D	s	R	т	N	182
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																			CGGG	660
.83	R I	М	Н	G	L	F	D	V	Е	Ι	s	L	т	v	Q	E	N	A	G	202
61	AGC	m z m	aciiva	mme	~ n mv	occi	0031	need	mc a	· mom	220	200			202	, ,	720	200		720
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21	ATAG	CAC	ДСПС	CAC	a a c	. מממ	2020	ree:	מסמ	aac.	n a a	ממי	220	מממ	ימיחים	TYDC:	amai	mmc:	CAC	780
23	I G																			242
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81	ATTI	ATG.	ACTC	CTT	rccz	AAG'	TCT	CTC	GTT	TAT	GGA'	TTT'	PTA	TAT	CTV	GAG	3CC	CGT	GGT	840
43	I Y	D	s	F	P	s	ь	s	F	М	D	F	Y	Ι	L	R	P	V	G	262
			<u>:</u>							•			٠							
	CCCI																			900
63	PC	R	A	K	L	V	М	G	т	L	K	L	Q	Ι	ь	G	Ε	V	Н	282
01	TTTG	mag:		ccc	ימיי	PAGO	יריתיי	nc mr	ימישו	მგლი	ישרי	raci	·	amer)	220		cm	יתהי		960
	F V																			302

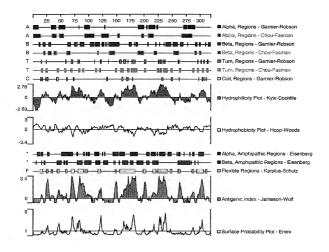
## Figure 5B

303	G P N P W S F P S P C A L F P T *	319
1021	${\tt TGCCTGCTCTCTTGCTTTCAGAATTGAGAGACGCCCGGAAACACGCAGGTACCAA}$	1080
1081	$\tt CGCCTGAGAGGGTAACAGTGGGCATGGAGTAGGAAGATGACCAGTGACAGATATGGAGCC$	1140
1141	${\tt catccagcttgtagacagcaaatctgtgatgcccgaatccaccccagggtgcagctgcct}$	1200
1201	$\tt CTAAATACACTTCTTGGCCCAGGACTTGGAGGGAAAAGCGTAGGGACTGGGTCAGCTAGG$	1260
1261	${\tt AGGGGTCACAGGCAAGACGCCAGGGAACTGAGGGCATTAGTAGCTGGCTTCTAGGGGTCT}$	1320
1321	$\tt GTGCAAAGGGGAACGAAGTGAAGTTAGCAGGAACTGGTGGGTG$	1380
1381	$\tt GGAGTCACTCAAGGTCTCACAAAGTCAAATAGAGGGCTTACGTGGGAGGGCAGTGGTAGG$	1440
1441	${\tt GCTGGGTGAACATCTCATGGTTGAGCATCTCCAAGCATCAGTGAGGCACGGGGGCTGCCC}$	1500
1501	${\tt TGGAGAAGGTACATGGCTGGTGGGATAGTGGGACTGGCCGGATCCTACCCGGAGCCAGTC}$	1560
1561	${\tt TGCAGTGGGAGGGTCGACCTCTTGCTCCAGCCCAGATTTCGTCTTCAGTAACTCATGCTT}$	1620
1621	$\tt cctctcccccaccgcaccccagtgaggtgactctggatccagagacggctcacccga$	1680
1681	$\tt AGCTCTGCGTTTCTGATCTGAAAACTGTAACCCATAGAAAAGCTCCTCAGGAGGTGCCTC$	1740
1741	${\tt ACTCTGAGAAGAGATTTACAAGGAAGAGTGTGGTGGCTTCTCAGGGTTTCCAAGCAGGGA}$	1800
1801	${\tt AACATTACTGGGAGGTGGACGTGGGACAAAATGTAGGGTGGTATGTGGGAGTGTGTCGGG}$	1860
1861	$\tt ATGACGTAGACAGGGGGAAGAACAATGTGACTTTGTCTCCCAACAATGGGTATTGGGTCC$	1920
1921	${\tt TCAGACTGACAACAGAACATTTGTATTTCACATTCAATCCCCATTTTATCAGCCTCCCCC}$	1980
1981	${\tt CCAGCACCCCTCCTACACGAGTAGGGGTCTTCCTGGACTATGAGGGTGGGACCATCTCCT}$	2040
2041	${\tt TCTTCAATACAAATGACCAGTCCCTTATTTATTACCCTGCTGACATGTCAGTTTGAAGGCT}$	2100
2101	${\tt TGTTGAGACCCTATATCCAGCATGCGATGTATGACGAGGAAAAGGGGGACTCCCATATTCA}$	2160
2161	TATGTCCAGTGTCCTGGGGATGAGACAGAGAGACCCTGCTTAAAGGGCCCCACACCACA	2220

# Figure 5C

2221	GACCCAGACACGCCAAGGGAGAGTGCTCCCGACAGGTGGCCCCAGCTTCCTCTCCGGAG	2280
2281	$\tt CCTGCGCACAGAGAGTCACGCCCCCCACTCTCCTTTAGGGAGCTGAGGTTCTTCTGCCCT$	234
2341	GAGCCCTGCAGCAGCGGCAGTCACAGCTTCCAGATGAGGGGGGATTGGCCTGACCCTGTG	2400
2401	$\tt GGAGTCAGAAGCCATGGCTGCCCTGAAGTGGGGACGGAATAGACTCACATTAGGTTTAGT$	2460
2461	$\tt TTGTGAAAACTCCATCCAGCTAAGCGATCTTGAACAAGTCACAACCTCCCAGGCTCCTCA$	2520
2521	${\tt TTTGCTAGTCACGGACAGTGATTCCTGCCTCACAGGTGAAGATTAAAGAGACAACGAATG}$	2580
2581	${\tt TGAATCATGCTTGCAGGTTTGAGGGCCACAGTGTTTTGCTAATGGATGTGTTTTTATGATT}$	2640
2641	${\tt ATACATTTTCCCCACCATAAAACTCTGTTTGCCTTAATTCCCACACTTAATTTAACTTTTC}$	2700
2701	$\tt CTCCTATACCCAAATCCACCCATGGAATAGTTAATTGGAACACCTGCCTTTGTGAGGCTC$	276
2761	CAAAGAATAAAGAGGAGGTAGGATTTTTCACTGATTCTATAAGCCCAGCATTACCTGATA	2820
2821	CCAAAACCAGGCAAAGAAAACAGAAGAAGAAGGAAGGAA	288
2881	${\tt TTAACACAGACACAAAAATTCTAAATAAAATTTTAACAAATTAAACTAAACAATATATTT$	2940
2941	${\tt AAAGATGATATAACTACTCAGTGTTTGTCCCACAAATGCAGAGTTGGTTTAATAT}$	3000
3001	TTAAATATCAACCAGTGTAATTCAGCACATTAATAAAGTAAAAAAAA	3059

Figure 6



## Figure 7A

1	NNCACGAGCCTGTGCCCCTGGAAAGGTTGGAGACTTGGGGGACGACTGGAGAATTGCCAT	60
61	${\tt TTGAGGACCAAAGGAGAAAGAAACTACACGCTAATTCTAGAAGGCCTCCTGTCCCTGCC}$	120
121 1	TGCTCTGGGTGCTCATGGAACCAGCTGCTGCCTGCACTTCTCCCGGCCAGCCTCCCTC	180 16
181 17	TCCTCCTCCTCAGCCTGTGTGCACTGGTCTCAGCCCAGTTTACTGTGGGGCCAGCTA L L S L C $\lambda$ L V S $\lambda$ Q F T V V G G P $\lambda$ N	240 36
241 37	ATCCCATCCTGGCCATGGTGGGAGAAAAAACACTACATTACGCTGCCATCTGTCACCCGAGA P I L A M V G E N T T L R C H L S P E K	300 56
301 57	AAAATGCTGAGGACATGGAGGTGCGTGCTTCCGGTCTCAGTTCTCCCCCGCAGTGTTTG N A E D M E V R W F R S Q F S P A V F V	360 76
361 77	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	420 96
421 97	CCTTTGTGAGCAAAGACATCAACAGGGGCAGCGTGGCCCTGGTCATACATA	480 116
481 117	CCCAGGAGAATGGATCTACCGCTGTTACTTCCAAGAAGGCAGGTCCTACGATGAGGCCA Q E N G I Y R C Y F Q E G R S Y D E A I	540 136
541 137	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	600 156
601 157	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	660 176
661 177	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	720 196
721 197	CTGACGGCCTCTTCATGGTCACCACAGCTGTGATCATCAGAGACAAGTATGTGAGGAATG D G L F M V T T $\lambda$ V I I R D K Y V R N V	780 216
781 217	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	840 236
841 237	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	900 256
901	CATCTCCCTGGATGGTCCATGACTGTCATCCTCGCTGTTTTCATCATCTTCATGGCTG	960

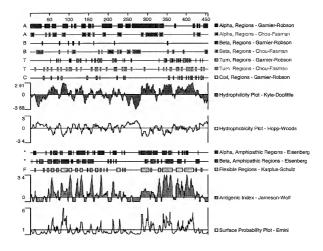
## Figure 7B

277	SICCIKKLQREKKILSGEKK	296
1021 297	AAGTTGAACAAGAGGAAAAAGAAATTGCACAGCAACTTCAAGAAGAATTGCGATGGAGAA V E Q E E K E I A Q Q L Q E E L R W R R	1080 316
1081 317	GAACATTCTTACATGCTGCTGATGTGGTCCTGGATCCAGACACCGCTCATCCCGAGCTCT T F L H $\lambda$ A D V V L D P D T $\lambda$ H P E L F	1140 336
1141 337	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	1200 356
1201 357	ACCCAGAGAGATTCGACAGTCAGCCTTGTGTCCTGGGATGGGAGAGCTTCGCCTCAGGGA P E R F D S Q P C V L G W E S F A S G K	1260 376
1261 377	AACATTACAGGGGAAACTTCACAGAGTGGGGACCCACCAGAGCCTATAGAATCAATTCCT H Y R G N F T E W G P T R A Y R I N S L	1320 396
1321 397	TGGACTCACAGCCATGCAGAAAGCCCTGGCCATCTCAGCAGCCACCGCACAACCCCCCTA D S Q P C R K P W P S Q Q P P H N P P N	1380 416
1381 417	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	1440 436
1441 437	TCACACCCACTCCAGCCCTCTGCCCCAGTTTTCTCCTCCTCACTAGTCTGTGGCTTTAGT T P T P $\lambda$ L C P S F L L L T S L W L *	1500 455
1501	${\tt AGTTCCTTTGCTTGTAATTATGGGATGGGATCCAGGCATAGGGAACTAGTTGTTTCATAG}$	1560
1561	$\tt CTCCCAGTCAAAAAGAAAGTGAGAGAAGCTGTTGGGCAGCGAACCTACTGTTTAAAATCA$	1620
1621	${\tt GGATAACCACATTAAGCCCAATATGCCAGTTGGCACCAGATGCTGTGGACTTGGAATGAG}$	1680
1681	GCCAACAGGGTTCACCAGGATGAGAGAGGAGAGAGGAATCCACAGGACCACCAGAAGGGA	1740
1741	$\tt GAGGGAACCAGATATGCAGATCAGAGATAGAGGAAGTGTTGAGAGGAAAGGGGAGGTCCT$	1800
1801	${\tt GCTGATTCCTCAGAATGGCTTCTGGACCCTTGGAGATGTTTGGAAACCAATACCGGGCCCT}$	1860
1861	$\tt GTCCTCCCCTGAGAGGATTCTCCCTTTGAAGGAGTCCCTTTGCCGGGTGGGCGTCTTCCT$	1920
1921	${\tt GGACTATGAAGCTGGAGATGTCTCCTTCTACAACATGAGGGACAGATCACACCATCTACAC}$	1980
1981	ATGTCCCCGTTCAGCCTTTAATGTGCCTGTGAGGCCATTCTTCAGGTTAGGGTCTGATGA	2040

## Figure 7C

2041	CAGCCCCATCTTCATCTGCCCTGCACTCACAGGAGCCAGTGGGGTCATGGTGCCTGAAGA	210
2101	$\tt GGGCCTGAAACTTCACAGAGTGGGGACCCACCAAGGTTGTAAGGATGGCTAAGTCCCACC$	216
2161	${\tt ATAAGAGCTAAAGGGTCCTGGGAGATGATGGCTCATTTCCACCCAACCCCAGGATTTCCACCCAACCCCAGGATTTCCACCCAACCCCAGGATTTCCACCCAACCCCAGGATTTCCACCCAACCCCAGGATTTCCACCCAACCCCAGGATTTCCACCCAACCCCAGGATTTCCACCCAACCCCAGGATTTCCACCCAACCCCAACCCCAGGATTTCCACCCAACCCCAACCCCAGGATTTCCACCCAACCCCAACCCCAGGATTTCCACCCAACCCCAACCCCAACCCCAACCCCAACCCCAACCCC$	222
2221	${\tt CAGCACACCCCACAGGCCTGGACCTGGGATGAAGATGAATGA$	228
2281	GGATGTGGTTTGGCTCAGATGTCCCTGCAATAAACAAGGGGTCAGTACTTAGTCCCTGAG	2340
2341	${\tt TGTGGTTGAGGTTTGAGGTCCTGGTCGAGCAGGGCAGTACTGGACCAGGTCTACGTCAGC}$	240
2401	${\tt ATTCAGGTTCAATGGGGACACCAGTGGCTTCAAACTTCCTGATCTAATTATGTTTTTAGA}$	2460
2461	${\tt CACTTAGAAGTTATTGAGGACTTTAAAGAACTTTTGTTTATTTGGGTTAATATTTATGAC}$	252
2521	${\tt ATTTGACCATTGAAACAAAAATTTAAAATGTTATCTTTAATTTATGTTAAAATAGCATT$	2580
2581	${\tt AATAAATCAGTTATAGGTTAATGTAGATAGGATGTTTTGTGAAAAAGCAATCTATTGTGT}$	2640
0544		

Figure 8



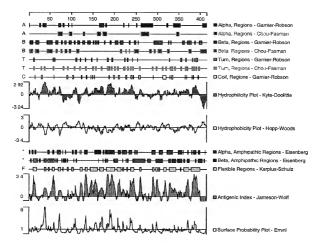
# Figure 9A

1	CG	ATT	CGG	CTC	CAA	ACT	CCG	GCG	CTG	CAG	CCG	ATC	GGA	CTC	TGG	GCC	GCG	GTG	GGC	ACCG	60
61	CG	CGC	AGC	TAG	GGA	GCC	GAG.	AAC	cgc	GGC	GAG	ccc	CGA	GGA	.CGC	CCA	GAG	CGC	GAG	GGTC	120
121	GC	TGC	GCC	TCG	CAG.	AGC	cgg.	AGC	CGA	GTC	GAG	CCG	GGC	GCC	CGG	GCT	GCC	TGG	AGA	CGCC	180
181	GT	GAC	TTT	GAA	GTG	TAA	CTT	CAA	GAC	AGA	TGG	GCG	CAT M	GCG R	GGA E	GAT I	CGI V	gtg W	GTA Y	CCGG R	240 8
241 9	GT V	GAC T	GGA D	TGG G	TGG G	CAC T	CAT	CAA K	GCA Q	AAA K	GAT I	CTT F	CAC T	CTT F	CGA D	CGC A	CAT M	GTT F	CTC S	CACC T	300 28
301 29	AA N	CTA Y	CTC S	ACA H	CAT M	GGA E	GAA N	CTA Y	CCG R	CAA K	GCG R	AGA E	GGA D	CCT L	GGT V	GTA Y	CCA Q	GTC S	CAC T	TGTG V	360 48
361 49	AG R	GCT L	GCC P	CGA E	GGT V	CCG R	GAT	CTC. S	AGA D	CAA N	TGG G	TCC P	CTA Y	TGA E	GTG C	CCA H	TGT V	GGG G	CAT	CTAC Y	420 68
421 69	GA D	.CCG R	CGC A	CAC T	CAG R	GGA E	GAA K	GGT V	GGT V	CCT L	GGC A	ATC S	AGG G	caa N	CAT	'CTT F	CCT L	CAA N	CGT V	CATG M	480 88
481 89	GC A	TCC P	TCC P	CAC T	CTC S	CAT	TGA. E	AGT V	GGT V	GGC A	TGC A	TGA D	CAC T	ACC P	AGC A	CCC	CTT F	CAG S	CCG R	CTAC Y	540 108
541 109	CA Q	AGC A	CCA Q	GAA N	CTT F	CAC T	GCT L	GGT V	CTG C	CAT	CGT V	GTC S	TGG G	AGG G	AAA K	ACC P	AGC A	ACC P	CAT M	GGTT V	600 128
601 129	TA Y	TTT F	CAA K	ACG R	AGA D	TGG G	GGA. E	ACC. P	AAT I	CGA D	CGC A	AGT V	GCC P	CCT L	ATC S	AGA E	GCC P	ACC P	AGC A	TGCG A	660 148
661 149	AG S	CTC S	CGG G	CCC	CCT.	ACA Q	GGA D	CAG S	CAG R	GCC P	CTT F	CCG R	CAG S	CCT L	TCT L	GCA H	ccg R	TGA D	CCT L	GGAT D	720 168
721 169	GA D	CAC T	CAA K	GAT M	GCA Q	gaa K	GTC. S	ACT L	GTC S	CCT L	CCT L	GGA D	CGC A	CGA E	gaa N	CCG R	GGG G	TGG G	GCG R	ACCC P	780 188
781 189	TA Y	CAC T	GGA E	GCG R	CCC P	CTC S	CCG R	TGG G	CCT L	GAC T	CCC P	AGA D	TCC P	CAA N	CAT	CCT	CCT L	CCA Q	GCC P	AACC T	840 208
841 209	AC T	AGA E	gaa N	CAT	ACC.	AGA E	GAC	ggT V	CGT V	GAG S	CCG R	TGA E	GTT F	TCC P	CCG R	CTG W	GGT V	CCA H	CAG S	CGCC A	900 228
901 229	GA E	GCC P	CAC T	CTA Y	CTT F	CCT L	GCG	CCA H	CAG S	CCG R	CAC T	CCC P	GAG S	CAG S	TGA D	.CGG G	CAC T	TGT V	GGA E	AGTA V	960 248
961 249	CG R	TGC A	CCT L	GCT L	CAC	CTG W	GAC	CCT	CAA) N	CCC	ACA Q	GAT I	CGA D	CAA N	CGA E	.GGC	CCT L	CTT F	CAG S	CTGC C	1020 268

## Figure 9B

021	GAGGTCAAGCACCCAGCTCTGTCGATGCCCATGCAGGCAG	1080
269		288
.081	AAAGGACCCAAAATTGTGATGACGCCCAGCAGAGCCCGGGTAGGGGACACAGTGAGGATT	1140
289	K G P K I V M T P S R A R V G D T V R I	308
	CTGGTCCATGGGTTTCAGAACGAAGTCTTCCCGGAGCCCATGTTCACGTGGACGCGGGTT	
309	L V H G F Q N E V F P E P M F T W T R V	328
329	GGGAGCCGCCTCCTGGACGCAGCGCTGAGTTCGACGGGAAGGAGCTGGTGCTGCAGCGG G S R L L D G S A E F D G K E L V L E R	1260 348
349	GTTCCCGCCGAGCTCAATGGCTCCATGTATCGCTGCACCGCCCAGAACCCACTGGGCTCC V P A E L N G S M Y R C T A O N P L G S	1320 368
	ACCGACACGCACACCCGGCTCATCGTGTTTGAAAACCCAAATATCCCAAGAGGAACGGAG	
369	T D T H T R L I V F E N P N I P R G T E	388
381	GACTCTAATGGTTCCATTGGCCCCACTGGTGCCCGGCTCACCTTGGTGCTCGCCCTGACA  D S N G S I G P T G A R L T L V L A L T	1440 408
409	GTGATTCTGGAGCTGAAGGCACCCGCCCCGGCCACTCCATCAGGCACTGACATCT V I L E L T *	1500 415
501	CCGCGACCGGTTTTCATTTCTTAAACTATTTCCAGTCTTGTTCTTAGTCTCTTTCC	1560
.561	ATCTGTGTCTTGGCTTCTTCAGTCGGTTTAATTAAAACAAAC	1620
		1680
681	AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA	

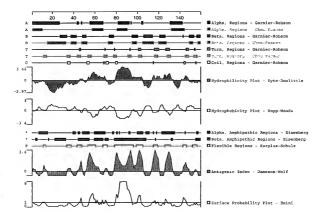
Figure 10



# Figure 11

-	CACGAGCC1919CCCC19GAAAGG11GGAGAC11GGAGAA117GCCA111	00
61	GAGGACCAAAGGAGAAAAGAAACTACACGCTAATTCTAGAAGGCCTCCTGTCCCTGCCTG	120
121	CTCTGGGTGCTCATGGAACCAGCTGCTGCCCTGCACTTCTCCCGGCCAGCCTCCCTC	180 16
181 17	CTCCTCCTCAGCCCTGTGTGCCCAGTGCCCAGGTCACTGTGTGGGGCCCACTGAT L L L S L C $\lambda$ L V S $\lambda$ Q V T V V G P T D	240 36
241 37	CCCATCCTGGCCATGGTGGGAGAAAACACTACGTTACGATGCTGTCTGT	300 56
301 57	AATGCTGAGGACATGGAGGTGCGGTGGTTCCAGTTCTAGTTCTCCCCTGCAGTGTTTTGTG N A E D M E V R W F Q S Q F S P A V F V	360 76
361 77	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	420 96
421 97	TTTGTGAGCAAAGACAGCAGGGGCAGCCTGGCCCTGATCATACACAATGTCACAGCCGAG F V S K D S R G S V A L I I H N V T A E	480 116
481 117	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	540 136
541 137	CACCTTGTGGTGGCAGCAGCACAATCCTCTTTCCTGGATCCCCATTCCGCAGGGGACA H L V V V A D Q H N P L S W I P I P Q G T	600 156
601 157	CTCTCCCTATGAAAAGAAGATTCCAGGGGAAAAATCCTTCCT	660 160
661	${\tt TGAGTGAGTTTGCCCTGCTAAGCCGTGGGCTTGACTTCTTGAGAAGCACATGCAGAACTC}$	720
721	AGTTGAGGCCATGAGCCGGGGGAAAATGGTGAATCTCGGAAGAGAAGTCCTATGCCTGCC	780
781	TTAGCACTGAGCTGTGCACTTCTGAGAGTGAGAGGAGACCATCAATAATTGTCTTGGG	840
841	ACAACTGGAATAAACAGTGACTGCCCAGAGAACTACGATATTTGAAATCTTATTTCTTGA	900
901	TGAATATTCATCCTGACTTCTTCCTGAAATGCTGTTTGCAAAGAGAGTGACTTATATGT	960
961	AAGTAGAGCGTTTTATTAAAGCAAGACTTAATACAGAAGCAAAAAAAA	19

Figure 12



## Figure 13A

1	ACA	iic					L													Q	18
61	TGG	CAC	GT	GTT'	TGG	GCC.	AGA	CAA	GCC'	TGT	CCA	GGC(	CTT	GGT	GGG	GGA	gga.	CGC.	AGC.	ATTC	12
19	W	Q	٧	F	G	P	D	K	P	٧	Q	A	L	V	G	E	D	A	A	F	38
										maa			~~		3 am			amm		GGGC	18
21																					
39	s	С	F	L	S	P	K	т	N	A	E	A	М	E	٧	R	F	F.	R	G	58
81	CAG	TT	TC	TAG	CGT	GGT	CCA	CCT	CTA	CAG	G <b>G</b> A	CG <b>G</b> (	GAA	GGA	CCA	GCC	TTA	TAT	GCA	GATG	24
59	Q	F	s	S	V	V	Н	L	Y	R	D	G	K	D	Q	P	F	М	Q	М	78
241																				CTCT	30
79	P	Q	Y	Q	G	R	T	K	L	V	K	D	S	Ι	A	Е	G	R	1	s	98
301	CTC	AG	CT(	GGA	AAA	CAT	TAC	TGT	GTT	GGA	TGC	TGG	CCT	CTA	TGG	GTG	CAG	GAT	TAG	TTCC	36
99	L	R	L	Е	N	1	T	V	L	D	A	G	L	Y	G	С	R	Ι	S	S	11
861	CAC	TC*	rTA	CTA	CCA	GAA	GGC	CAT	CTG	GGA	GCT	ACA	GGT	GTC	AGC	ACT	GGG	CTC	AGT	TCCT	42
19							A														13
21	CTC	יידי בי	rrc	നമന	CAC	agg	מדמי	TGT	TGA	ጥልር	AGA	CATI	CCA	ССТ	ACT	CTG	тса Та	GTC	стс	GGGC	48
139							Y													G	15
181	TGC	TT	ccc	ccg	GCC	CAC	AGC	GAA	GTG	GAA	AGG	TCC	ACA.	agg	ACA	GGA	TTT	GTO	CAC	AGAC	54
159	W	F	P	R	P	T	A	K	W	K	G	P	Q	G	Q	D	L	s	T	D	17
												_									
541 L79							CAT M									CTC S		GAO T		CCAA	60 19
.,,	3	K	•	14			11	**		Ľ		י	,	_	_	5		1	•	*	13
01	GAC	AA	CCC	rgg	GAG	CAT	ATC	стс	TTC	САТ	GCG	GCA	TGC	TCA	ጥርጥ	GAG	ccs.	AGA	GGT	GGAA	66
199					S		s				R				L		R			E	21
61	mcc		acm.		a a m	300		ma C	cmm	mmm	·	acci	m a m		ome.	ac.	ccm	ccc	ma.c	CAAA	72
219							AGA D													K	23
			•	*	_		-		-	•	~	•	-	-			_	••	•		20
721	GTZ	CT	GG.	AAT.	ACT	CTG	CTG	TGG	CCT	ATT	TTT	TGG	CAT	TGT	TGG	ACT	gaa	GAT	TTT	CTTC	78
239	V	L	G	1	L	С	С	G	L	F	F	G	Ι	V	G	L	K	I	F	F	25
81	TCC	AA.	ATT	CCA	GTG	GAA	AAT	CCA	GGO	GGA	ACT	GGA	CTG	GAG	AAG	AAA	GCA	CGG.	ACA	GGCA	84
259	s	K	F	Q	W	K	I	Q	A	Е	L	D	W	R	R	K	H	G	Q	A	27
341	GAZ	TT	GAG.	AGA	CGC	CCG	GAA	ACA	CGC.	AGT	GGA	GGT	GAC	TCT	GGA	TCC	AGA	GAO	GGC	TCAC	90
279	E	L	R	D	A	R	к.	H	Α	V	Ε.	V	T	L	D	P	E.	T	Α	Н .	29
901	CCC	AA	GT(	CTG	CGT	TTC	TGA	TCT	GAA	AAC	TGT.	AAC	CCA	TAG	AAA	AGC	TCC	CCA	GGA	GGTG	96
299	P	K	L	C	V	S	D	L	K	T	V	T	H	R	K	A	P	Q	E	V	31

## Figure 13B

961	CCTCACTCTGAGAAGAGTTTACAAGGAAGAGTGTGGTGGCTTCTCAGAGTTTCCAAGCA	1020
319	P H S E K R F T R K S V V A S Q S F Q A	338
	• • • • • • • • • • • • • • • • • • • •	
1021	GGGAAACATTACTGGGAGGTGGACGGAGGACACAATAAAAGGTGGCGCGTGGGAGTGTGC	1080
339	G K H Y W E V D G G H N K R W R V G V C	358
		1110
1081	CGGGATGATGTGGACAGGAGGAAGGAGTACGTGACTTTGTCTCCCGATCATGGGTACTGG	1140
359	RDDVDRRKEYVTLSPDHGYW	378
	GTCCTCAGACTGAATGGAGAACATTTGTATTTCACATTAAATCCCCGTTTTATCAGCGTC	1200
1141		
379	V L R L N G E H L Y F T L N P R F I S V	398
		1000
1201	TTCCCCAGGACCCCACCTACAAAAATAGGGGTCTTCCTGGACTATGAGTGTGGGACCATC	1260
399	F P R T P P T K I G V F L D Y E C G T I	418
1261	TCCTTCTTCAACATAAATGACCAGTCCCTTATTTATACCCTGACATGTCGGTTTGAAGGC	1320
419	S F F N I N D Q S L I Y T L T C R F E G	438
1321	TTATTGAGGCCCTACATTGAGTATCCGTCCTATAATGAGCAAAATGGAACTCCCAGAGAC	1380
439	L L R P Y I E Y P S Y N E Q N G T P R D	458
1381	AAGCAACAGTGAGTCCTCCTCACAGGCAACCACGCCCTTCCTCCCCAGGGGTGAAATGTA	1440
459	K O O *	462
	"	
1441	GGATGAATCACATCCCACATTCTTCTTTAGGGATATTAAGGTCTCTCTC	1500
TAAT	GGATGAATCACATCCCACATTCTTTTAGGGATATTAAGGTCTCTCTC	1300
		1560
1501	GTCCCGCAGCAGCCGGCCAAGGTGGCTTCCAGATGAAGGGGGACTGGCCTGTCCACATGG	1200
	· · · · · · · · · · · · · · · · · · ·	
1561	GAGTCAGGTGTCATGGCTGCCCTGAGCTGGGAGGGAAGAAGGCTGACATTACATTTAGTT	1620
1621	TGCTCTCACTCCATCTGGCTAAGTGATCTTGAAATACCACCTCTCAGGTGAAGAACCGTC	1680
1681	AGGAATTCCCATCTCACAGGCTGTGGTGTAGATTAAGTAGACAAGGAATGTGAATAATGC	1740
1741	TTAGATCTTATTGATGACAGAGTGTATCCTAATGGTTTGTTCATTATATTACACTTTCAG	1800
1001	788888888888888888888888888888888888888	

Figure 14

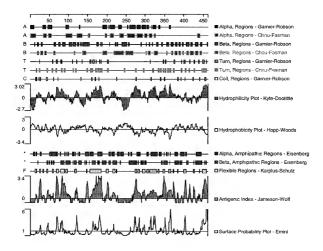


Figure 15

